PortaCD USB

CD-210PU

User's Guide

Portable USB
CD-ROM Drive

FCC Radio Frequency Interference Regulations

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions contained in this manual, may cause harmful interference to radio and television communications. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Subpart J of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. To ensure compliance with FCC rules, the cable that connects the unit to the computer must be a shielded interface cable.

Note: Connecting this device to peripheral devices that do not comply with Class B requirements or using an unshielded peripheral cable could result in interference to radio or television reception. To ensure that the use of this product does not contribute to interference, use a shielded interface cable.

If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user may try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna
- Move the device and the receiver further apart
- Connect the equipment to an electrical outlet on a circuit different from that of the receiver
- Consult the dealer or an experienced audio television technician

Also, the following booklet may prove helpful: How to Identify and Resolve Radio-TV Interference Problems. It is available from the U.S. Government Printing Office, Washington, D.C. 20402, stock number 004-000-00345-4.

The user is cautioned that any changes or modifications to this equipment not expressly approved by TEAC America, Inc. could void the user's warranty.

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Windows, Windows 98SE, Windows 2000, and MS-DOS are trademarks or registered trademarks of Microsoft Corporation.
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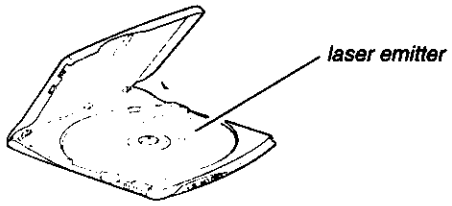
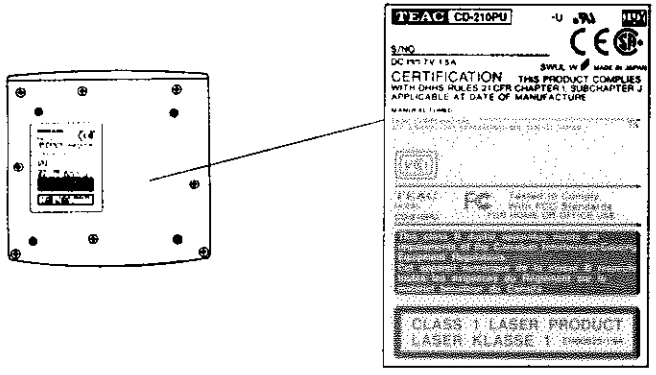
Safety Information

The TEAC PortaCD uses an invisible laser beam that can damage your vision if you stare directly into it or view it with optical instruments when the disc tray cover is open. Avoid direct visual contact with the laser beam.



Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



Optical Pickup	
Type	HPC-5
Laser output	Less than 0.5mW on the objective lens
Wavelength	770-795nm

Declaration of Conformity	
Model Number:	CD-210PU
Trade Name:	TEAC
Responsible Party:	TEAC AMERICA, Inc.
Address:	7733 Telegraph Road Montebello, California 90640, U.S.A.
Telephone Number:	1-323-727-4860
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.	

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Introduction

Thank you for choosing the TEAC PortaCD USB (model CD210-PU).

This durable, portable, external CD-ROM drive can read CD-ROM discs up to a maximum of 10 times normal speed, which is the maximum transfer rate attainable with a USB Version 1.1 interface. It is designed for use with IBM PC or compatible portable computers that feature one or more USB ports.

Using the included USB cable, you can connect the PortaCD directly to your portable computer if it is equipped with a USB port.

The PortaCD can transfer data to your computer and draw power through your computer's power supply via the USB interface cable. This means that you can connect the CD-ROM drive to your portable computer using a single, convenient cable.

The PortaCD features a disc tray cover that swings up to facilitate loading and unloading compact discs.

Please read this manual in its entirety before you begin the installation procedure.

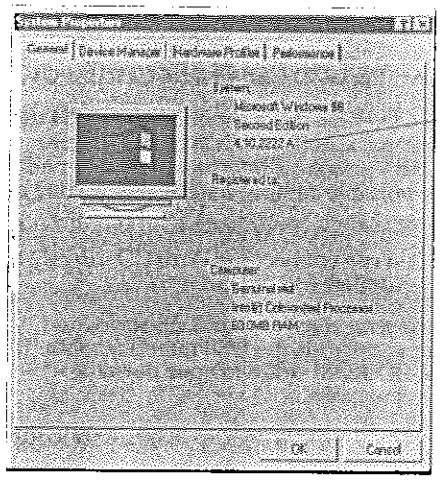
Recommended System Requirements

The following items represent the minimum system requirements for successful operation of the PortaCD.

- ❑ Portable IBM PC-compatible computer, Pentium 133MHz or higher
- ❑ Available hard disk space of 1MB or more
- ❑ USB port (conforming to USB version 1.1)
- ❑ 3.5" floppy disk drive for software installation
- ❑ Microsoft Windows 98 Second Edition (see below) or Windows 2000

Note: Windows 98 SE Version Number

If you are using Windows 98 SE (Second Edition), the version number of the software must be 4.10.2222A or higher. To check the version number, click the "Start" button, then select "Settings->Control Panel->System" from the menu. The system displays the System Properties control panel, which includes the version number (Figure A on page 2).



— version number
4.10.2222A or higher

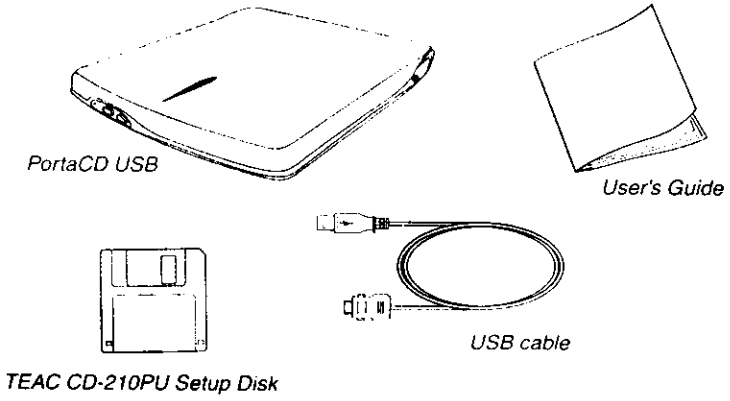
Figure A —

Unpacking Your PortaCD

Your TEAC PortaCD and accessories are packaged in a sturdy shipping container. Please verify that the following items are included in the package (see Figure).

If an item is missing, contact the dealer from whom you purchased the drive.

- ❑ PortaCD USB portable CD-ROM drive
- ❑ USB cable
- ❑ TEAC CD-210PU Setup Disk (installation software floppy disk)
- ❑ *PortaCD USB (CD210-PU) User's Guide* (this manual)



— Figure B —

Note: If any of these items is missing for your kit, please contact your vendor immediately for replacement.

Front and Right Panels

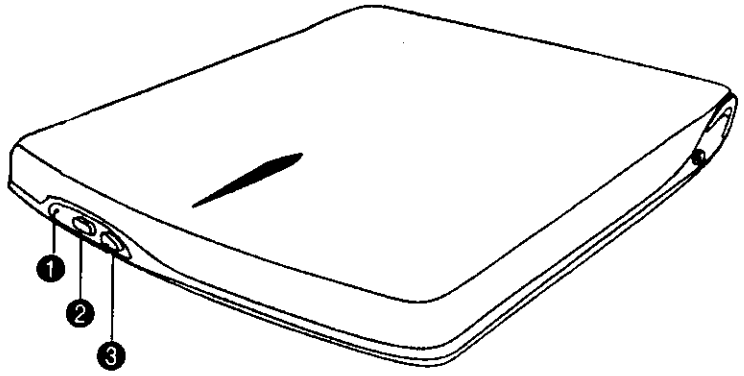
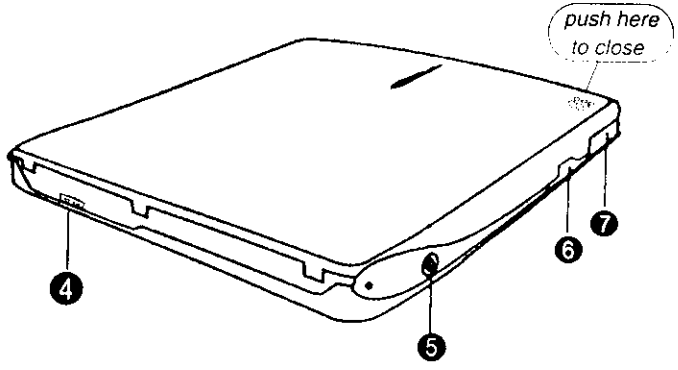


Figure C —

1. **On/Busy indicator:** This indicator lights up green when power to the PortaCD is turned on and flashes amber to indicate that the drive is in seek, play, or read mode.
2. Stop Button: This button stops the play of an audio compact disc.
3. Play Button: This button plays an audio CD.

Left and Rear Panels



— Figure D —

4. **USB interface connector:** Connect the plug end of the provided USB cable to this connector. (See "Installation" on page 5 for more information.)
5. **Headphone jack:** You can connect headphones or external speakers to this 3.5 mm stereo mini-jack. See "Connecting to Audio Equipment" on page 14. for more information.

❻ **Volume control:** Use the volume control to adjust the volume. Turn the control to the right to increase the volume.

> *Caution: Do not raise the volume level output to headphones too high or you may damage your hearing.*

❼ **Open button:** Slide forward the Open button to unlatch the lid.

> *Caution: Do not forcefully pull open or close the disc tray by hand or you may damage the unit.*

Operating Orientation

Place the TEAC PortaCD drive on a stable, level surface for operation. The surface should be within 10° of horizontal.

> *Caution: Do not operate the drive upside-down (i.e., with the TEAC logo facing down).*

Installation

The following sections explain how to install the driver software for both Windows 98SE and Windows 2000 in various configurations. (For Windows 2000 information, see "Windows 2000" on page 13.)

Installation Notes

- ❑ Windows 98SE supports the use of only one PortaCD unit at a time. Simultaneous and multiple PortaCD units are not supported. (However, you may connect the PortaCD and another USB device to the computer simultaneously.)
- ❑ Avoid connecting the PortaCD to a USB hub in a cascade connection. The hub may not correctly supply power to the PortaCD.
- ❑ The PortaCD conforms to suspend/resume function. Entering the "suspend" command places the PortaCD in power management mode as per USB version 1.1. The "wakeup" command restores normal operation. When the PortaCD is connected to a computer that supports the resume function, closing and opening the PortaCD disc cover during suspend mode awakens the computer.

Windows 98SE

On Windows 98SE systems, you must install the driver software from the included TEAC CD-210PU Setup Disk before you operate the PortaCD. Follow the procedure below:

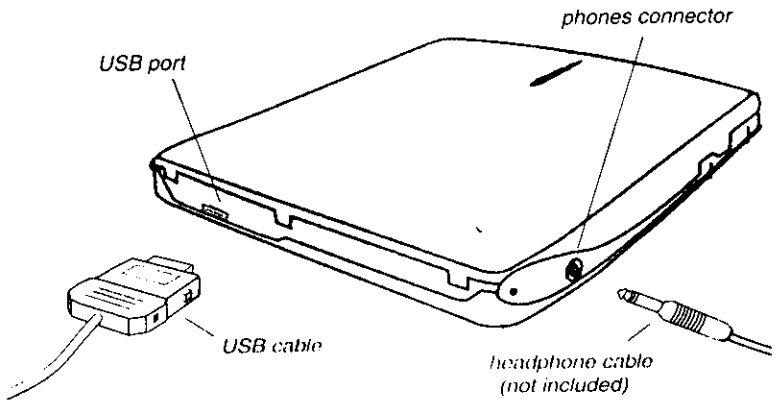
Connecting to a Computer with Two USB Ports and a USB Floppy Disk Drive or Hub

If the computer has two (or more) USB ports, and one USB port is connected to another USB device (e.g., a USB floppy disk drive or a USB hub), follow the procedure below:

1. **Connect the floppy disk drive (or hub) to your portable computer.**
2. **Turn on the computer.**

   The system loads Windows 98SE.
3. **Quit all open applications.**
4. **Insert the appropriate end of the USB interface cable into the USB port on the rear panel of the PortaCD.**

   Use the shorter, wider plug. Refer to Figure E on page 6. USB interface cable connectors are designed to be inserted in a specific orientation. Do not use excessive force while trying to insert the cable into the connector. As you fully insert the plug into the USB port, you should hear a tiny click sound.



— Figure E —

5. **Insert the opposite end of the USB interface cable into a USB port on your computer.**

   Do not use excessive force while trying to insert the cable into the connector.

   In a moment, the system acknowledges the connection by displaying an Add New Hardware Wizard panel (Figure F).

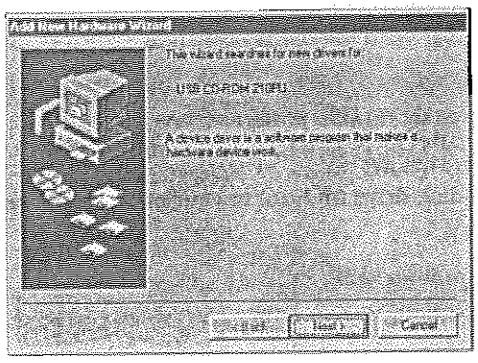


Figure F —

> *Note: If the system does not display this panel when you plug in your PortaCD, open "Control Panel->System->Device Manager->Universal Serial Bus Controller" and check the USB controller type. There are two types: Universal and Open Host Controllers (UHCI and OHCI). Your PortaCD is compatible with UHCI and may not work with your system. If you encounter this problem, return the device to your vendor and consider using a PCMCIA CD-ROM drive instead.*

6. **Click the "Next" button.**

   The system asks for instruction (e.g., "search for the best driver?") (Figure G on page 7).

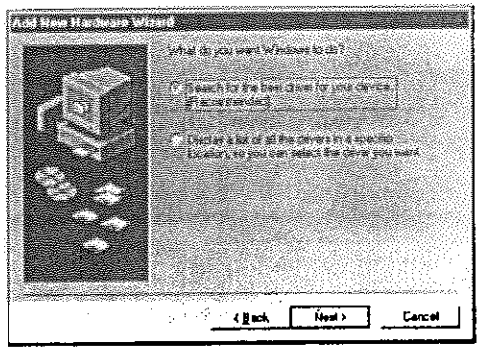


Figure G —

7. Click the "Next" button.

   The system asks you to specify the drive to search (Figure H).

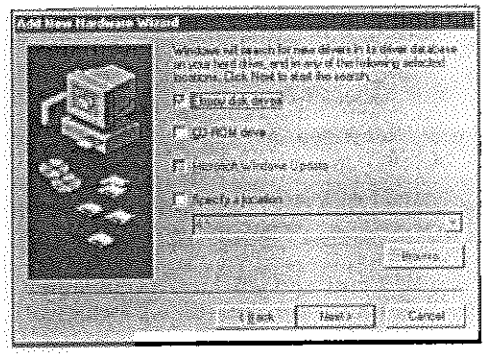
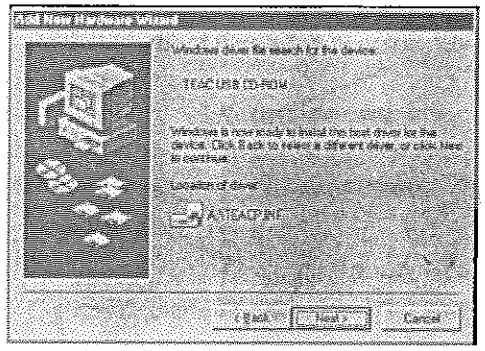


Figure H

8. **Insert the included Setup Disk into the floppy disk drive.**

9. **Click the checkbox for "Floppy disk drives," then click the "Next" button.**

   The system searches for the correct device driver and then displays the following panel (Figure I on page 8):



— Figure I —

10. Click the "Next" button.

    The system copies the appropriate files from the Setup Disk to your computer's hard drive, then displays the "Finish" button.

11. Click the "Finish" button.

    Do not eject the Setup Disk until the it has been read and the Wizard panel disappears from the screen.

12. **Eject the Setup Disk from the drive.**

    Store the Setup Disk in a safe place for future use.

    The installation is now complete and your PortaCD is ready for use. (To confirm correct installation, open "My Computer" or "Explorer" and look for a CD-ROM icon.)

Connecting to a Computer with One USB Port and a USB Floppy Disk Drive

If the computer has only one USB port, and you have a USB floppy disk drive, follow the procedure below:

1. **Connect the USB floppy disk drive to your portable computer.**
2. **Turn on the computer.**

   The system loads Windows 98SE.

3. **Quit all open applications.**
4. **Insert the included Setup Disk into the floppy disk drive.**
5. **Create a folder on your hard drive and copy the contents of the Setup Disk to the folder.**

   Copy all files from the \(root) level of the Setup Disk. You do not need to copy \DOS. Refer to your Windows documentation for more information.

6. **When copying is complete, eject the Setup Disk from the floppy disk drive.**

   Store the Setup disk in a safe place for future use.

7. **Disconnect the floppy disk drive from the computer.**
8. **Insert the appropriate end of the included USB interface cable into the USB port on the rear panel of the PortaCD.**

   Refer to Figure E on page 6. USB interface cable connectors are designed to be inserted in a specific orientation. Do not use excessive force while trying to insert the cable into the connector. As you fully insert the plug into the USB port, you should hear a tiny click sound.

9. **Insert the opposite end of the USB interface cable into a USB port on your computer.**

   In a moment, the system acknowledges the connection by displaying an Add New Hardware Wizard panel (Figure J).

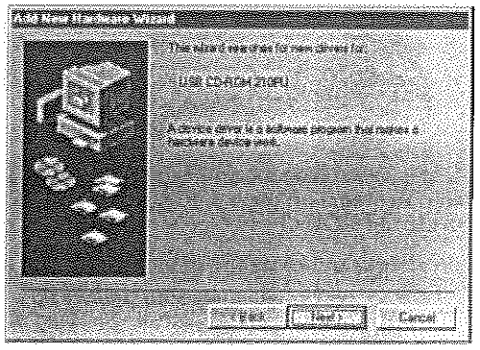


Figure J

> *Note: If the system does not display this panel, please refer to the note following Figure F on page 6.*

10. **Click the "Next" button.**

    The system asks for instruction (e.g., "search for the best driver?") (Figure K).

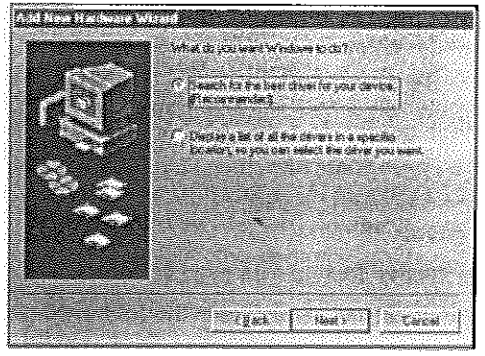
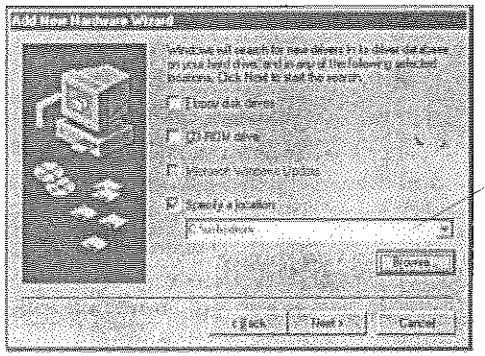


Figure K

11. **Click the "Next" button.**

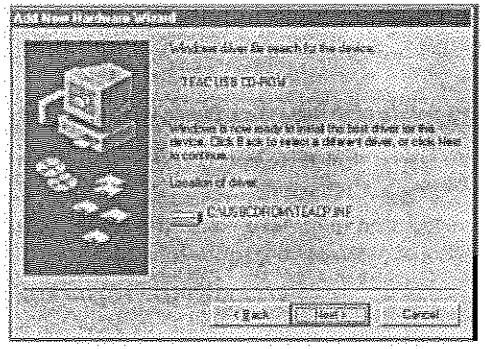
The system asks you to specify a drive to search (Figure L on page 10).



— Figure L —

12. **Click the "Specify a location" checkbox, and type in the location of the folder you created in step 5 on page 8. (Or, you can click the Browse button and locate the folder.)**

Refer to Figure L. The system searches for the device driver and then displays the following panel (Figure M):



— Figure M —

13. Click the "Next" button.

The system installs the appropriate files, then displays the "Finish" button.

14. **Click the "Finish" button.**

15. **Delete the folder you created in step 5 on page 8.**

The installation process has installed the files in this folder elsewhere on your hard drive. Refer to your Windows documentation for information on deleting files. The installation is now complete and your PortaCD is ready for use. (To confirm correct installation, open "My Computer" or "Explorer" and look for a CD-ROM icon.)

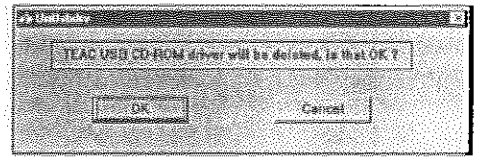
Uninstalling the Driver Software

You may wish to uninstall the driver software someday if, for example, you stop using the PortaCD or suspect that the driver is causing a malfunction. Follow the steps below.

1. **Disconnect the PortaCD from the computer.**
2. **Insert the Setup Disk into the floppy disk drive.**
3. **At the root level of the Setup Disk, execute the following command:** `UnUsbdrv.exe`.

> *Note: If you copied the Setup files to the hard disk drive as per page 8, then run the* `UnUsbdrv.exe` *file from the corresponding location.*

The system displays the UnUsbdrv panel (Figure N):



— Figure N —

4. Click the OK button.

The system uninstalls the driver.

> *Note: Once the drive is deleted, the system will no longer recognize the PortaCD. If the PortaCD is reconnected, the system will display the Add New Hardware panel as per Figure F on page 6.*

Installing Windows 98SE from the PortaCD

A setup driver that enables you to install Windows 98SE from the PortaCD is included on the Setup Disk. (This is a different driver than the Windows 98SE device driver.)

Notes

- ❑ *You may not be able to install Windows 98SE if your computer has only one USB port and the BIOS does not support a USB CD-ROM drive.*
- ❑ *You cannot use a USB hub for this type of installation. The driver for MS-DOS on the Setup Disk is unable to recognize the PortaCD via a USB hub.*
- ❑ *The driver for MS-DOS on the included Setup Disk has a limitation to support only those functions required to install Windows 98SE. Do not use this driver for other purposes.*

Follow these steps:

1. **Turn off the computer.**
2. **Connect your USB floppy disk drive to a USB port on the computer.**
3. **Use the included USB interface cable to connect the PortaCD to a USB port on the computer.**

   Refer to Figure E on page 6.
4. **Insert the Windows 98SE Startup Disk into the floppy disk drive.**
5. **Turn on the computer.**

   The system loads the operating system and displays: `A:\>`
6. **Replace the Windows 98SE Startup Disk with the TEAC Setup Disk.**
7. **Type in "cd dos" and press the Enter key.**

   The system displays: `A:\DOS>`
8. **Type in "setup" and press the Enter key.**

   The system prepares to install the software and displays the message, "Please insert Startup Disk for Windows 98SE."
9. **Replace the TEAC Setup Disk with the Windows 98SE Startup Disk. Press the Enter key.**

   The system asks you to restart your computer to install Windows 98SE.
10. **With the floppy disk inserted in the floppy disk drive, restart the computer.**

    The system recognizes the PortaCD and begins the Windows 98SE installation procedure.
11. **Follow the on-screen instructions to continue to set up Windows 98SE.**

    When installation is complete, you will be prompted to restart the system. Upon restart, the system displays the "Add New Hardware Wizard."

    Follow the instructions that follow Figure F on page 6 to setup the PortaCD.

Windows 2000

Windows 2000 includes the driver necessary to operate the USB PortaCD. You do not need to install any driver.

Caution

- ❑ You cannot uninstall the driver, since it is contained in the Windows 2000 operating system.
- ❑ You may remove a connected USB cable from the USB port *on your computer* while the computer is turned on. However, do not disconnect the cable from the PortaCD while the computer is on, or the computer may malfunction.
- ❑ Do not disconnect the PortaCD during disk operation.
- ❑ Do not disconnect and reconnect the USB cable from the computer in rapid succession. Wait 10 or 20 seconds before reconnecting.
- ❑ To safely disconnect the PortaCD from the computer, double-click the "Unplug or Eject Hardware" icon on the Task bar. Select "USB Mass Storage Device" and click the OK button.

Creating a Windows 2000 Setup Disk

To create a Windows 2000 Setup Disk:

1. **Format four floppy disks.**
2. **Insert the Windows 2000 CD-ROM into the PortaCD.**

   The PortaCD must be connected to a Windows 98SE or Windows 2000 system.
3. **Access the Boot disk directory on the Windows 2000 CD-ROM.**
4. **Execute "Makeboot.exe".**

   The system displays the MS-DOS command prompt.
5. **Specify the directory of the floppy disk drive.**
6. **Follow the on-screen instructions to create four setup disks.**
7. **Insert Setup Disk 1 into the floppy disk drive.**
8. **Open "Txtsetup.sif" on the Notepad.**
9. **Search for "0644" to locate the following line, and edit it as illustrated, changing "0000" to "1000."**

   USB\VID_0644&PID_0000 ="usbstor"

   ↓

   USB\VID_0644&PID_1000 ="usbstor"
10. **Key in the following information on the subsequent line:**

    USB\VID_0644&PID_0000 ="usbstor"
11. **Save the file.**

12. **With Setup Disk 1 in the floppy disk drive, restart the system.**
13. **Continue the setup by following the on-screen instructions.**

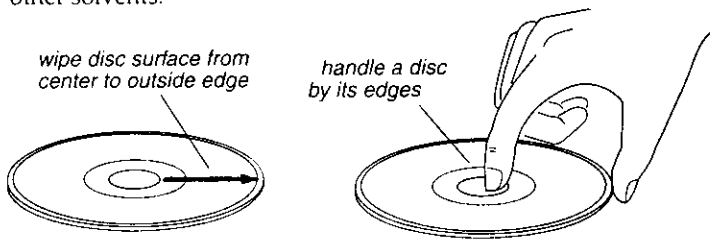
Connecting to Audio Equipment

The PortaCD outputs a line-level audio signal from the headphone jack. You can connect a 3.5 mm stereo mini-plug to the headphone jack (see Figure E on page 6).

Press the Play and Stop buttons on the front panel to control playback (for more information, see page 3).

Handling Discs

- ❑ Handle compact discs only by their edges to avoid getting fingerprints on the surface. Do not touch the disc's data surface (non-label side).
- ❑ Do not place discs in direct sunlight, or in locations subject to high humidity, high temperatures, or dusty conditions.
- ❑ If cleaning the disc becomes necessary (erratic operation or visible dust or smudges), gently wipe the surface of the disc from the surface to the outside edge. Do not use benzene, alcohol, thinner, or other solvents.



— Figure O —

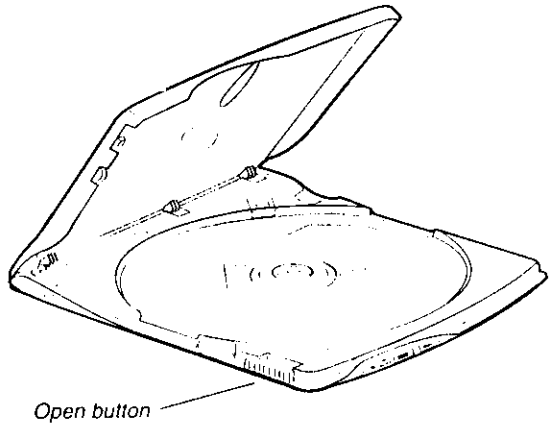
Loading and Ejecting a Disc

This section explains how to load and eject discs from the PortaCD.

Loading a Disc

1. **Slide forward the Open button on the left panel.**

   The disc tray cover will swing up and open.

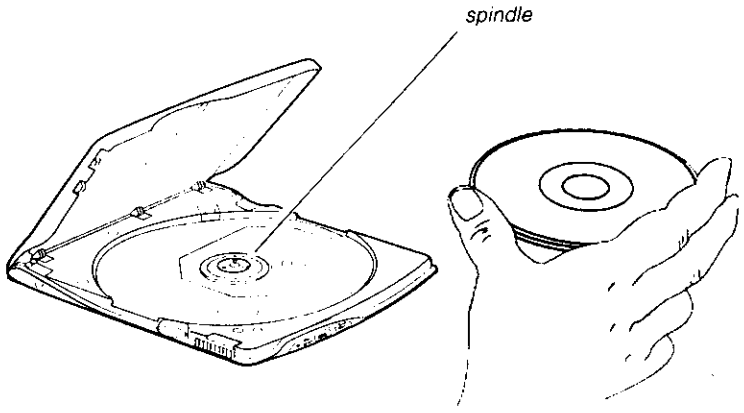


— Figure P —

2. **Insert a CD-ROM or audio CD into the drive with the disc label facing up.**

   Press the disc gently down onto the spindle, if necessary, until it snaps securely into position.

3. **Gently press down the disc tray cover to close the drive.**



— Figure Q —

Ejecting a Disc

1. **To eject a disc, first make sure the disc has stopped spinning. Then slide forward the Open button on the left panel.**

   The disc tray cover will swing up and open.

2. **Carefully remove the disc.**

   You may need to press a finger on the spindle or chassis to stabilize the drive.

3. **Gently press down the disc tray cover to close the drive.**

   Refer to Figure D on page 3.

Specifications

Model	CD-210PU
Disc Type	CD-DA CD-ROM (Mode-1, Mode-2) CD-ROM XA Mode-2 (Form-1, Form-2) Multi-Session PhotoCD™ CD-i, Video-CD, CD Extra (CD Plus), CD-R, CD-RW, CD-TEXT
Disc Diameter	12 cm, 8 cm
Interface	USB Version 1.1
Data Transfer Rate	642KB/sec. (4.28x) ~ 1,500KB/sec (10.0x) (1.5MB/sec (Burst USB)
Data Buffer Capacity	128KB
Headphone Output	5+5mw (rated load 32 Ω)
Ambient Temperature	Operating: 5° to 40°C (41 to 104F) Non-operating: -20° to 60°C (-4 to 140F)
Relative Humidity	Operating: 8% to 80% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Vibration	Operating: 0.5G or less (5-500Hz, 1oct/min) Non-operating: 2.0G or less (5-500Hz, 1oct/min)
Shock	Operating: 7G or less (half-sine wave, 11 msec, 4sec intervals) except in CD-DA play mode Non-operating: 60G or less (half-sine wave, 11 msec)
Power Requirement	+5Vdc (bus power only)
Power Consumption	Standby mode: 2.5mA or less Active mode: 0.5A max
MTBF	50,000 POH (10% duty)
Safety Standard	Approved by UL, CSA, TUV, CE
Dimensions	130.0 (W) x 14.0 (H) x 146.0 (D) mm
Weight	275g or less

Specifications and features subject to change without notice or obligation.

Technical Support

For technical support, please contact the dealer from whom you purchased the drive or the TEAC Service and Support Center nearest you:

North America:
TEAC America, Inc. (USA)
Technical Support
Telephone: (323) 727-4860
Fax: (323) 869-8751
Monday - Friday 8:00 a.m. - 5:00 pm
http://www.teac.com/dsp/new-dsp.html
E-mail: dspdtsg@teac.com

Europe:
TEAC Deutschland GmbH ICP Division (Germany)
Telephone: (611) 71-580
Fax: (611) 71-5892
BBS: (611) 71-5851
http://www.teac.de

TEAC UK Ltd.
Telephone: 923-225235 • Fax 923-236290

TEAC France S.A.
Telephone: (1) 42-37-01-02
Fax: (1) 42-37-65-45

Japan, Asia, Middle East:
TEAC Corporation, 3-7-3 Nakacho,
Musashino-shi, Tokyo 180 Japan
Field Service and Technical Support Section
Data Storage Products Sales and Marketing Division
Telephone: (0422) 52-5048
Fax-on-Demand (24 hours): (0422) 55-2554
BBS: (0429) 62-7498
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